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have ever brought forward. The programme, which has already been announced in this column, is a very attractive one.

The Beethoven Club Concert.

The next Beethoven Club concert, which will be given at Mason & Hamilton's hall, will be a most interesting one. It will contain more things than that of last month when there was such remarkable enthusiasm over the programme. The orchestra, which has now in rehearsal Liszt's "Mazeppa" and Grieg's "Peer Gynt" suite, both of which are of the most beautiful type. The soloist will be Miss J. Abble Clarke of Chicago, a young violinist of high attainments, who has been heard recently on the local stage, but not under such distinguished auspices. The programme will include a De Berliot concerto. This will be the second of the three subscription concerts, and the programme of the first two tickets were taken for the entire season. There are still some seats remaining, and those who are unable to secure seats, if afforded, they will be privileged persons who secure them, as the number is limited.

Miss Haas' Charity Concert.

The concert to be given for charity by Miss Mabel Haas and other well known musicians in the city, will be a most promising to be a very interesting event. An admirable programme has been made up, and the concert will be well patronized, and as there is more than ordinary need for charity funds at this time, there can be no doubt of the support of the commendable enterprise.

Dramatic and Musical Notes.

Only has much overhanging space.

Cleveland's minstrels will follow "S Bella" to Ellen Beach Yaw will give a concert in Kansas City some time in April.

Rebecca Thirard has signed to play the title part in "The Century Girl."

Lily Langtry has been refused accommodations at the Albion hotel, New York.

John H. Hadden, the Cleveland novelist, has produced an opera entitled, "The Taboo" at the Trafalgar theater, London.

It is reported that the new opera to go on the stage in a play designed to represent the life and deeds of the James O'Connell.

Among the attractions soon to be offered at the Ninth Street will be "The Fencing Master" and "The Mystery of the Missing Leading role."

Mary Hampton has made such success in "The Mystery of the Missing Leading role" this season that Charles Frohman has decided to engage her to tour next season in the same piece.

Way Templeton and Vermona Jarboe, burlesque comedians, have been touring the country while, decided a month ago to combine their talents as stars next season in a production of genuine burlesque.

London is deserted. Mr. and Mrs. George Tress, Mr. Wilson Barrett, John Barrymore, Mr. and Mrs. Kean, the two Gaiety Girls companies and the two Classics companies have all departed.

The Byrne brothers, four in number, who will be seen at the Grand this week in "The Mystery of the Missing Leading role," the pantomime artists in the world. They have made, and are still making, big money out of their specialty.

Mr. Flunkett Greene will revisit America this season, remaining here from the middle of the month to the end of the month. He will give song recitals in New York.

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versary of his birth falls in December and there are already many schemes afoot for a particular celebration of the occasion. In England, Mr. Henschell has announced that he will commemorate the event by devoting the first of his series of chamber music concerts to works by Beethoven, and will produce, as far as possible, in chronological order, all the overtures, four or five piano sonatas, and one or two symphonies for violin and the three symphonies. Amateurs and those who desire an education in the experience of the great composer have already expressed their interest in Mr. Henschell's programme. The popular idea of the personality of Beethoven has also been a useful modification of the old idea of the artist as a recluse. A new portrait, the classic which was

not even suspected, has been discovered. The portrait represents him as a misanthropic person, that we have been accustomed to and may have been painted in some of those moments when the composer made an effort to conform to the requirements of society and fashion. But he was a different man when he was alone. He was a different man who would wander bareheaded in the park while brooding over a new symphony or a new opera. He was a different man who would go down to the undisguised delight of the street Arabs.

There is now preparing a novel entitled "Fate of Jaded Londoners," which will be given at St. James's banqueting hall. The novel is a collection of short stories, of humorous stories—original or selected by competitors for money prizes and for the honor of the ability of distinguished judges are to act.

FATE OF LONDONERS.

The nineteenth century, especially in this latter half of it, has been most fittingly entitled the electrical age. Philadelphia took particular pride in honoring Benjamin Franklin on the occasion of the inauguration of the Franklin Institute, and the Record of that city can boast that it stands to-day upon the spot where that old Pennsylvania worthy flew his historic kite and first caught down the lightning from the sky. One of the most interesting exhibits of the medal, as described in the Record, is a lightning rod, which, in the hands of Franklin, exhibits the thunder god Jupiter in a cloud, with the lightning in his hand, and below a man giving a kite to a child. The author of the medal is, however, strongly suspected. Despite the extravagant theories of Professor Schweigger, who believes that the poles of the earth are made of zinc and iron, anodes and cathodes, and that the vegetation of the earth is a battery, the fact that fire was electric, and the picturesque de-

perition of the Ark of the Covenant and the
 destruction of the Temple of Solomon. It is
 constructed, there is no credible reason for
 deeming that the ancients understood the
 secret of this mysterious power, and that
 they, like the Egyptians, the Greeks, and the
 Romans, regarded it as a series of certain
 electrical phenomena. They entertained a
 superstitious reverence for amber—the
 fables—the fears of the ever-sighing
 Polyphemos, the petrification of Phaedon,
 with the sun god. They even declared that
 amber and adamant or magnet (so called
 from Magnesia, its native place) were
 identical in their attractive power. The
 ancients never claim to have known of the
 magnet during the reign of Hoang-ti, B. C. 2638
 or the era of the great builder of the
 pyramids, but the legend of the totemic
 idea of constructing the entire roof of
 the temple of Arsinoe of magnetic material
 is said to be that of the first principle
 of the float suspended within the
 Roman myth of Castor and Pollux

doubtedly symbolized a familiar phase of immortality—electricity. The principles of polarity were unknown, fantastic theories to the contrary notwithstanding. In 1784, William Gilbert, surgeon to Queen Elizabeth, and the most distinguished scientist in England, found this little seed of knowledge in the form of a wax which it had been buried for 1,500 years. He straightway planted it in rich human soil when he published his famous book. He knew that the attractive property of amber when rubbed was not inherent in that substance alone, but that it also extended to other substances, such as glass, which are included the precious stones, glass, sulphur, sealing wax and resins. Inasmuch as all of these substances are

electricity, and called the phenomenon it self electricity—terms which he derived from electron. The publication of Dr. Gilbert's work, however, is a true commencement of electrical science, its immediate effect everywhere having induced philosophers to efforts to extend his self-electricity. Dr. Gilbert's name should be immortalized as that of the father of the science of electricity.—*New Science Monthly*.

AN ARC LAMP.

Scientists Just Beginning to Study Its Heat and Light Characteristics.

Long as the arc lamp has been in use, the study of its phenomena is still far from being known or understood. In a communication recently made by M. Audouin to the French Académie des Sciences, interesting evidence was adduced to show that the temperature of

to be increased with the current. Photographs of the crater of the carbon arc, taken with the spectrograph, appear to stand, showed that its intrinsic brilliancy was the same over 1,000 or 1,200 amperes as with 10 amperes. The spectrum of the species of the positive carbon, M. Violle found a large number of the bands of the spectrum of the arc stood out brilliantly, and the spectra of the species of the crater; they were, however, not steady, and varied in brightness, being brighter the greater the current. It is known that the spectra of the species of bright bands forming the spectrum of a gas light are related to its temperature in the same way as are the corresponding spectra of the species of the spectrum of a solid body. The doubt is increased when the gas is illuminated under the action of electricity, which seems capable of converting itself into light without heat.

On the other hand, if the arc behaves like a conductor carrying a current it is to be expected that the heat proportional to the energy consumed, so that its temperature should increase with the current. In any case, the temperature which limits the temperature of the crater does not apply to the arc. M. Vielle tried to determine the temperature of the arc by introducing into it a thermocouple. The thermocouple introduced into the arc produced between two poles of the same metal burns away differently with different metals. The thermocouple of iron-constantan, showing, however, a much higher temperature than that of the volatilization point of zinc.

It is concluded that the temperature of the arc is, generally speaking, higher than that of the positive carbon, and that it increases with the energy consumed.

and reclaimed by irrigation. It is claimed that 400,000 acres in the Pecos valley have been brought under irrigation. The Pecos river has been dammed in three places on its course. The first dam is at Lordsburg, New Mexico, from which four irrigation canals have been made. In New Mexico a canal has been built from Roswell south paralleling the river. The second dam is at Lordsburg, the Honda river, with those of the Pecos river just below the streams empty into the Pecos. Between Pecos City and Roswell a canal has been made, having sprung up where irrigation in the rich valley is being engaged in by thousands of people. Immense storage reservoirs have been built. The capacity of one being 11,000,000 cubic feet, another 300,000,000 cubic feet, and another 600,000,000 cubic feet. Honda river is used for irrigation. Its capacity, 1,000,000,000 cubic feet. Honda

reservoir No. 2, proposed, will contain 2,000,000,000 cubic feet. The natural lakes are being protected from washouts and escapes, and in place of going dry at times are made to hold immense bodies of water the year round.

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